

ABSTRACT

A coupler knuckle casting having an enhanced bearing surface area and which is utilized in a railway freight car coupler. The coupler knuckle casting includes a tail section, and a hub section. The hub section has a pivot pinhole formed therein. Such pivot pinhole has generally straight cylindrical sidewalls. A front face section is connected to the hub section. Such front face section includes a nose section and a pulling face portion formed inwardly from such nose section. At such least a portion of such front face portion and such nose section includes an enhanced bearing surface area which includes a substantially flat portion disposed substantially in a vertical direction and which is substantially arcuate in a horizontal direction. The substantially flat portion extends for a predetermined distance in the vertical direction and for a predetermined length along the horizontal direction. There is the a transition section joining the tail section to the hub section. Such transition section includes a top metal section and a bottom metal section extending toward each other.